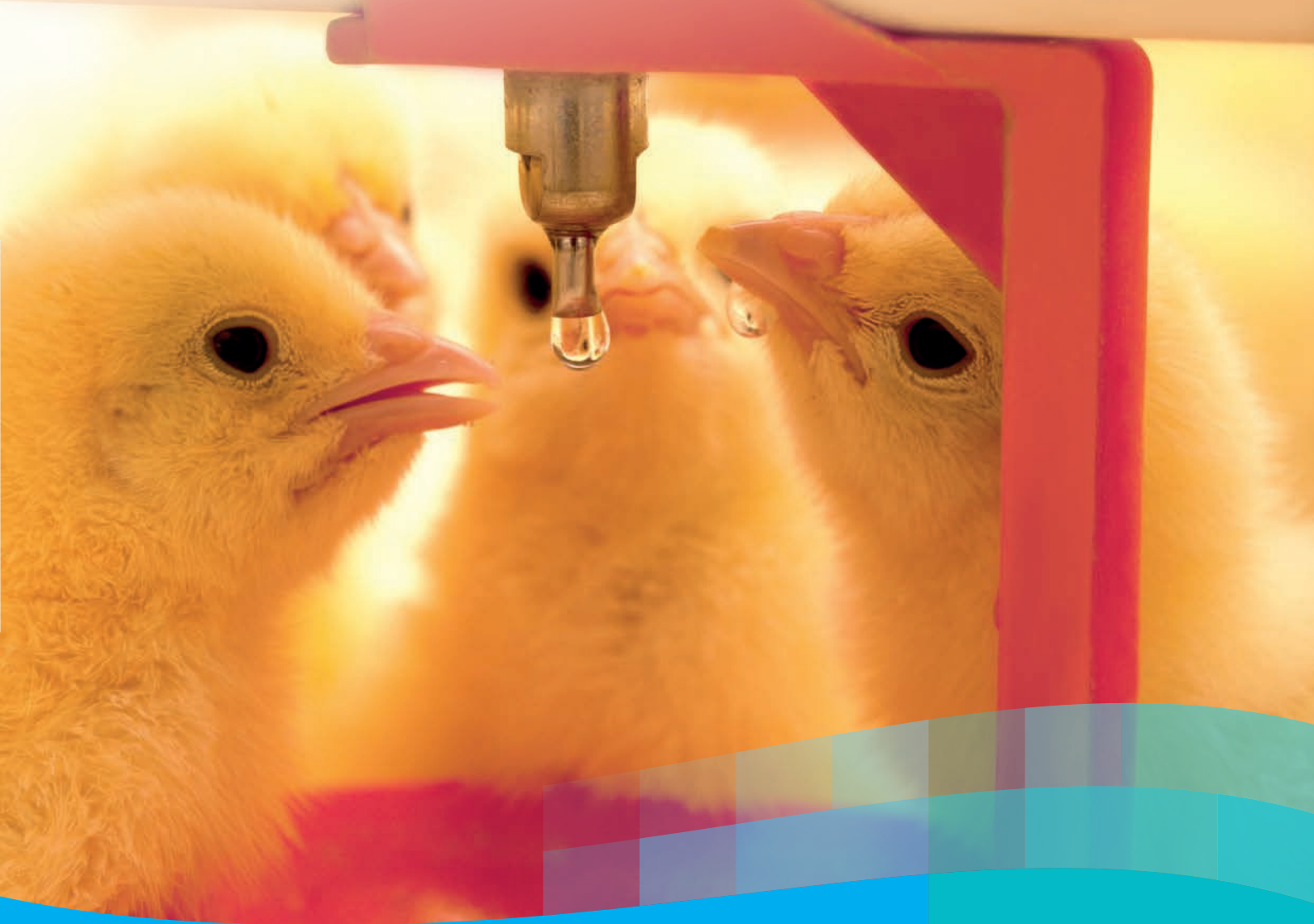
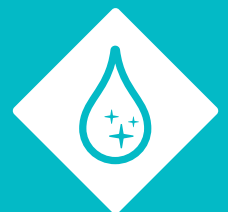


Aqua-clean®



Powerful disinfectant for a hygienic clean result

- ◆ Removal of pollution and biofilm in drinking systems
- ◆ Optimal effect of medication, vaccines and additives through clean drinking systems
- ◆ Lower corrosivity than other disinfectants
- ◆ Environment friendly: dissolves in water and oxygen



Hygiene

kanters.nl



Kanters

Healthy Animals, Healthy Farm

Importance of clean drinking water

The health of animals is largely determined by water hygiene, a fact that is often overlooked. Drinking systems need regular cleaning, otherwise they will become polluted which stimulates growth of bacteria. Contaminated drinking water is often not visible, but can result in health issues and poor performance levels. Especially with young animals, when temperatures are high and the water flow is low, there is a high risk of bacterial growth. Pollution of drinking systems is caused by deposits like iron, manganese and calcium. But also an addition of medicines, vaccines, and additives can leave residues in the system. Aqua-clean® ensures hygienic water and a clean drinking system.

What is Aqua-clean®?

Aqua-clean® cleans and disinfects drinking water systems. Aqua-clean® is based on hydrogen peroxide enriched with a special complex containing silver. This combination ensures the heavy cleaning needs of drinking systems.

Hydrogen peroxide

- ◆ Effervescent cleaner
- ◆ Penetrates and breaks up biofilm
- ◆ Antibacterial / disinfects water

Stabilizer / silver complex

- ◆ Prolongs reaction of Hydrogen Peroxide with biofilm
- ◆ Lower corrosiveness compared to other cleaning agents

When to use?

- ◆ Pollution of the drinking system
- ◆ Prevention of pollution in drinking system.
- ◆ Before and after addition of vaccines, medication, and additives

Mode of action

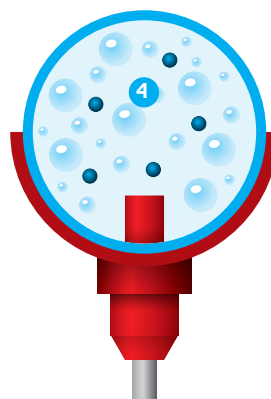
When Aqua-clean® comes in contact with dirt in the drinking water system, it will be activated and bubbles of oxygen will brush dirt away. This effervescent reaction of oxygen with organic pollution needs to be a stable

and strong process, as otherwise contamination will remain in the system. Aqua-clean® is specially designed to clean out all persistent contamination and is the most powerful in its kind.

Treated with Chlorine / Acid



Treated with Aqua-clean®



- 1 Pollution
- 2 Chlorine / Acid removes only free bacteria
- 3 Bacteria still present after cleaning with Chlorine / Acid
- 4 Active oxygen bubbles and a clean system

Figure 1: Schematic representation of pipeline when treated with Chlorine/Acid and Aqua-clean®.



Trial set up

In this trial the development of various bacteria in drinking water was measured with no drinking water addition, standard hydrogen peroxide or Aqua-clean®. Below in Figure 2 you can see the growth of bacteria after a period of 72 hours.

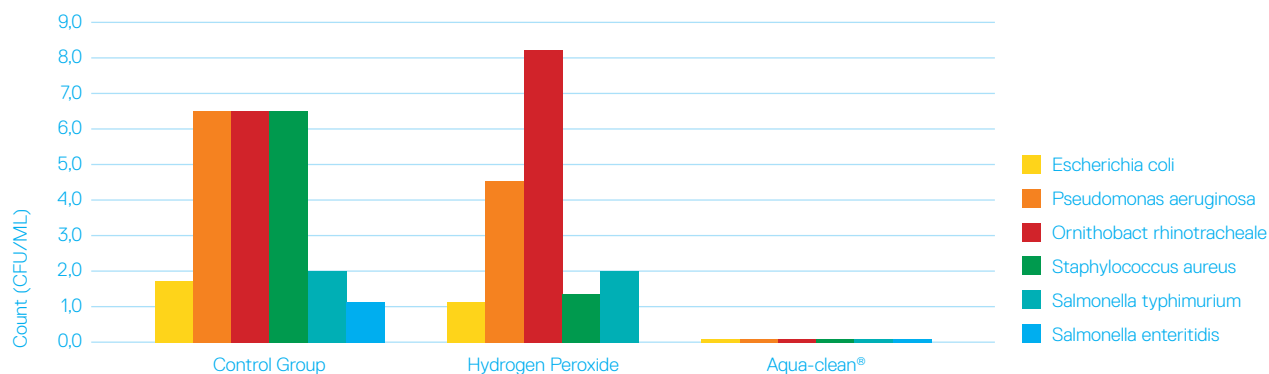


Figure 2: Growth of pathogens in drinking water when using Aqua-clean®, Hydrogen peroxide or no product.

Conclusion

Aqua-clean® prevents bacteria to grow by removing the source (biofilm) of growth for bacteria.

Trial set up

In this test several cleaning agents were compared for corrosiveness on iron and zinc. The results below indicate the corrosiveness after a contact time of 72 hours measures in mg/l oxidation of iron and zinc.

	Iron	Zinc
Aqua-clean®	110 mg/l	99 mg/l
Chlorine	610 mg/l	1200 mg/l
Hydrogen Peroxide	<2000 mg/l	1100 mg/l
Hydrogen Peroxide + Peracetic Acid	8800 mg/l	2100 mg/l

Table 1: Level of corrosion when using different cleaning products.

Conclusion

Aqua-clean® has the lowest corrosiveness compared to other water cleaning agents.



Powerful disinfectant for a hygienic clean result

- ◆ Removal of pollution and biofilm in drinking systems
- ◆ No blocked drinking nipples or drinking lines
- ◆ Prevents and stops leaking of drinking nipples
- ◆ Hygienic water reduces the risk on bacterial contamination
- ◆ Optimal effect of medication, vaccines and additives through clean drinking systems
- ◆ Lower corrosivity than other disinfectants
- ◆ Environment friendly: dissolves in water and oxygen

Dosage

Cleaning a non-operating system:

First cleaning: 3% Aqua-clean®

Regular cleaning: 1% Aqua-clean®

In case of heavy pollution increase dosage

Make sure there is adequate air release out of the system

Keep Aqua-clean® in the drinking system for a minimum of 12 hours

Maintain normal water pressure

After cleaning, flush thoroughly with fresh water



Packaging

4 litre can
10 litre can
20 litre can

Kanters Health Concept

Kanters provides total solutions to the farmer. To achieve this it is important that for all kinds of situations and health issues products are present that make a positive contribution to the recovery of animal health and improve results. Therefore Kanters has an extensive range of liquid nutritional supplements that are applied through drinking water. Our products are divided into five functional

groups. Within each functional group, the products may vary depending on the species, the type of animal, but also farm specific situation. Therefore, it is important that, before offering an approach, to conduct a farm analysis first. For this analysis you can contact us.



Hygiene



Balance



Care



Gut health



Performance

Kanters Special Products BV

De Stater 32, 5737 RV Lieshout - The Netherlands

Phone +31 (0) 499 425 600 - E-mail info@kanters.nl